

**Abstract**

The present invention relates to nucleic acid sequences encoding novel *Babesia canis* associated proteins and to cDNA fragments, recombinant DNA molecules and live  
5 recombinant carriers comprising these sequences. Furthermore, the invention relates to host cells comprising such nucleic acid sequences, cDNA fragments, recombinant DNA molecules and live recombinant carriers. Also, the invention relates to proteins encoded by these nucleotide sequences, to vaccines for combating *Babesia canis* infections comprising these proteins or genetic material encoding these proteins and  
10 methods for the preparation of vaccines. Another embodiment of the invention relates to these *Babesia canis* associated proteins for use in vaccines and to the use of the *Babesia canis* associated proteins in the manufacture of vaccines. Finally the invention relates to diagnostic tools for the detection of *Babesia canis* associated nucleic acid sequences, for the detection of *Babesia canis* associated antigens and for  
15 the detection of antibodies against *Babesia canis* associated antigenic material.